

## MSG 147 - BLUE FD11 MEIDEX OPS

### Forecast for MEIDEX

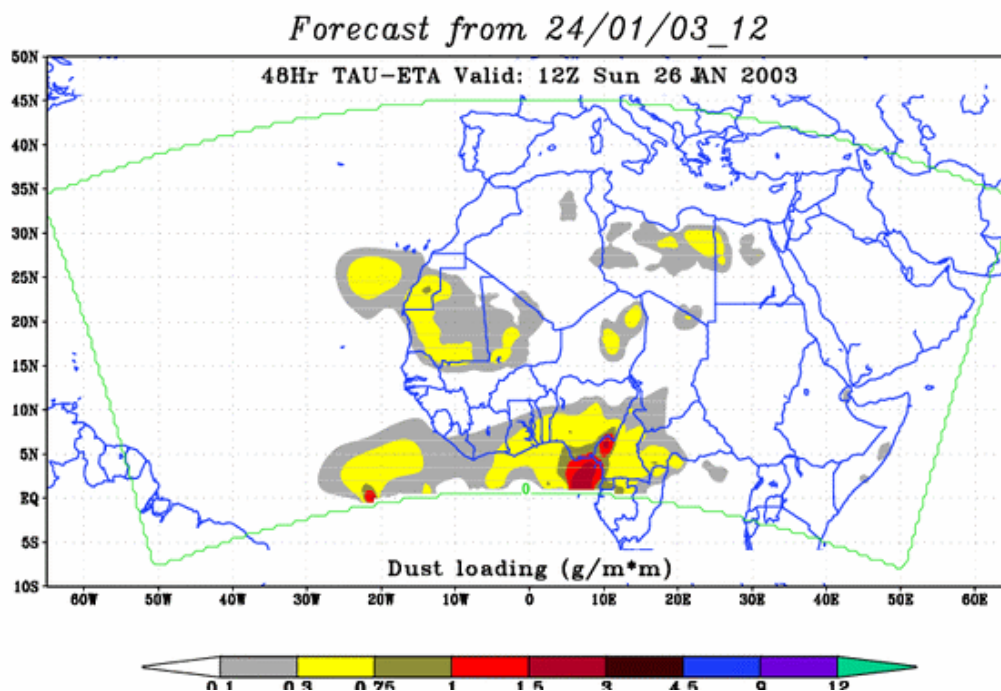
Date: 25 Jan 2003

**General:** "Yoav" cyclone is located over Sicily and expected to deepen and move slowly eastward. On 26 Jan it will be close to Crete, to its west, and on 27 - over Crete itself. This implies that the surrounding of Crete, Eastern Lybia and Egypt will be subjected to southerly winds, with optional dust plume formation, on 25-27 January.

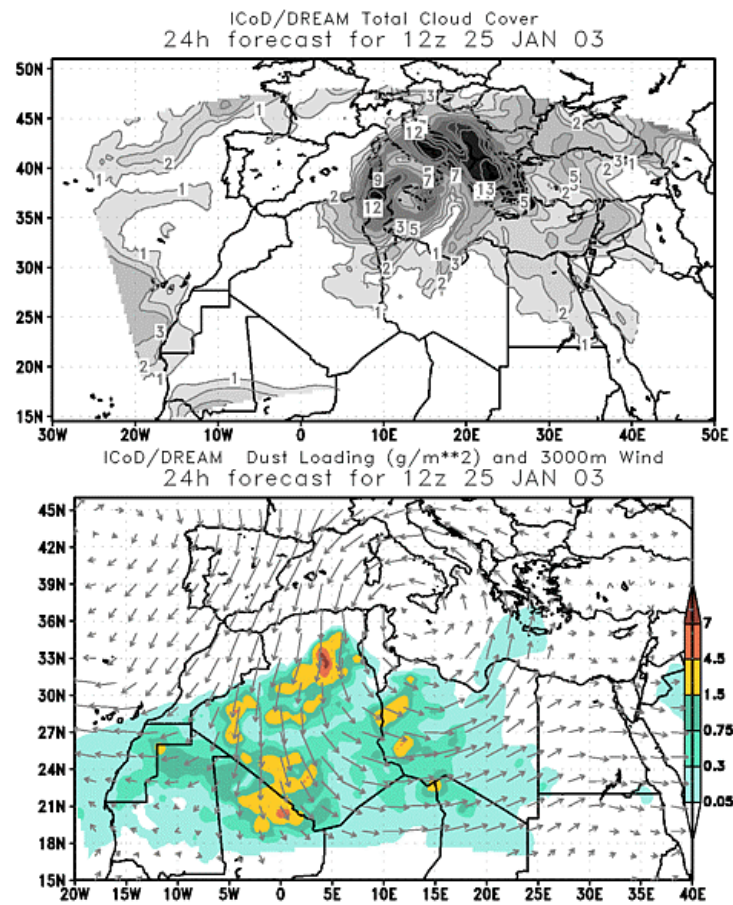
Only one model indicates the existence of distinct (though weak) dust plume over western Crete (~24E) today, 25 Jan, combined with low cloud coverage (about 1-3 octas). Tomorrow, 26 Jan, the possibility of dust is enhanced, but more cloudiness is also expected.

Tel Aviv model predicts 2 plumes over the Atlantic in 26 Jan: along 25N and along 15N, both extending about 10 deg to the west of the African coast.

**Weather over Crete:** 25 Jan - Partly cloudy, mainly in the morning, with local rain. The surrounding of Crete will be less cloudy. An active cold front will cross Crete from west this night. The resulting weather will be rainy, but to the east of Crete - partly cloudy with visibility of 5-10 km.

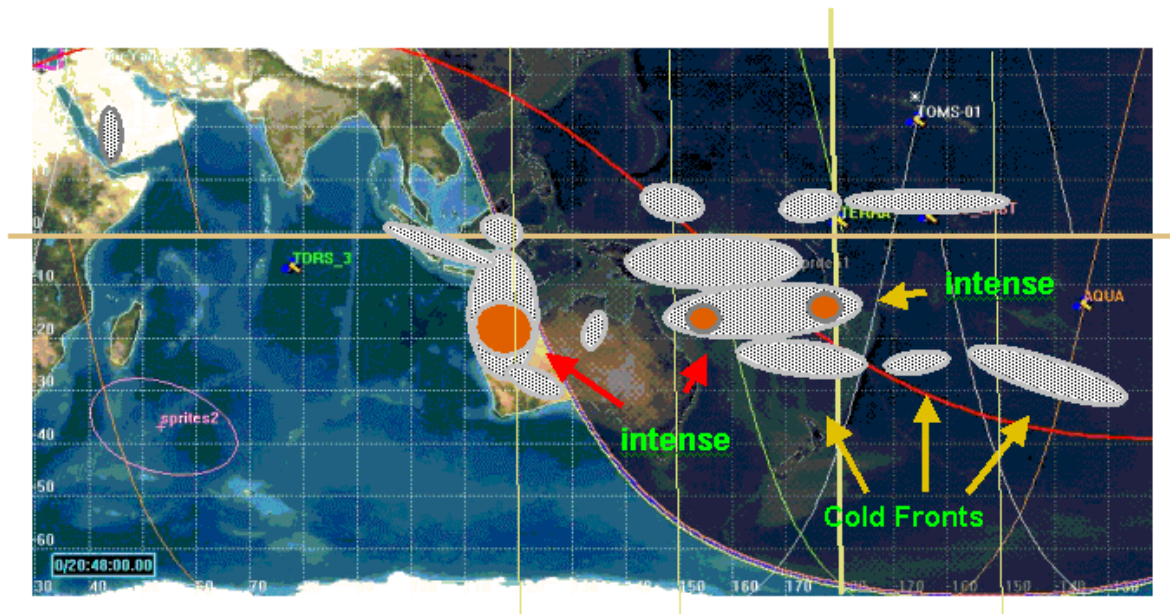


MSG 147 - BLUE FD11 MEIDEX OPS



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Sprite forecast for 25 Jan 2003 12 UTC



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## MSG 147 - BLUE FD11 MEIDEX OPS

**Yoya's Message:** Today's message is a tribute to Rick ...

### **Ode to a man named Rick.**

I know a man proud and devout,  
Who serves his country with intelligence and clout.  
His business is space  
But his heart embraces the race.  
My thoughts are of him,  
While he is doing his thing.

### **MEIDEX FD11 Ops Message**

**MX Playback:** 09/21:40 – 09/21:55

**MX XFERS:** 09/18:20, more to be scheduled for Red FD10

**MX PGSC Setup (sts 5-6):** 09/18:30, more to be scheduled for Red FD10

**Standalone Door Ops:** None

**Digital TV Instructions:** Sprite orbits 161 and 162 – live digital downlink

### **Special Instructions:**

- 1) For Sprites we will need you to continue to set the Gain to 90 (SCIENCE Step 4) at Orbiter sunset (T time). When we plan to leave the door open in between ops, we may ask you to return the gain to 65 at the end of the Sprite observation. All of these instructions will be noted in the Ops message.
- 2) Remember to keep an eye out for that Xybion temperature. If it reaches the limit of 40 deg during any of your ops, we would like you to immediately deactivate it via MEIDEX CLOSEOUT Step 3 (PLOPS, 1-79).
- 3) You're doing a great job tracking those storms. For optimal capture of the Sprites, please try to track the storms nearest the earth limb.
- 4) For the first time we will be doing some digital downlinks during some Sprite observations. We'll note this in your ops tables where appropriate.
- 5) To hopefully avert some of these pesky MEIDEX PGSC error messages, we'd like you to start rebooting the PGSC once per day during the first SETUP procedure of the day. The steps to do this are included in MSG 149. Please print this and post it near your PGSC for easy reference. We will refer you to this message during the first SETUP of each day.
- 6) For error messages, select "OK" to ignore on MEIDEX PGSC (as many times as required). Notify MCC and perform MEIDEX PGSC Reboot per MSG 149.

## MSG 147 - BLUE FD11 MEIDEX OPS

### Orbit # 156

Observation type: Dust / Sea surface (Mediterranean)  
 Dust plume width: no dust is predicted  
 Dust Plume Location: Approximately 15 deg south of groundtrack  
 Airplane Support: Yes  
 Video: Live SSV; Recorded on V10#1 and V10#2  
 Special Instructions: If cloud cover exceeds 25% - stop recording on PLD VCRs. Continue recording on V10s.  
 Violations: None

Start	Procedure	Instructions	R/NR	CMD	Notes
09/15:55	MEIDEX SETUP	Step 4 (TLM Config)	REQ	POCC	
		Step 5 (Event Log Config)	REQ	POCC	
		Step 6 (PLD VCR Act.)	REQ	POCC	VCR = 2
		Step 7 (Sekai Activation)	REQ	POCC	
09/16:05	MEIDEX SETUP	Step 1 (Timer Setup)	REQ	Crew	
		Step 2 (PTV Check)	REQ	Crew	
		Step 3 (Tape Verification)	REQ	Crew	
	MSG 149	MEIDEX PGSC Reboot	REQ	Crew	
09/16:10	XYBION ACT	Step 1 (Xybion Powerup)	REQ	POCC	
		Step 2 (Time/Date Config)	REQ	POCC	
09/16:15	MEIDEX SCIENCE	Step 4 (Xyb Cam Config)	REQ	POCC	Setup = ROI
		Step 6 (Truss Pntg Config)	REQ	POCC	As reqd
09/16:25	MEIDEX SCIENCE	Step 1 (Xyb Pwr Check)	REQ	Crew	
		Step 2 (Xyb T/D Check)	REQ	Crew	
		Step 3 (Door Open)	REQ	Crew	NLT 09/16:31
		Step 4 (Xyb Cam Config)	NR	--	Already cmded
		Step 5 (Mon 2 Checks)	REQ	Crew	Setup = ROI
		Step 6 (Truss Pntg Config)	NR	--	Already cmded
		Step 7 (In Cabin Record)	REQ	Crew	No Downlink
		Step 8 (PLD VCR act)	REQ	Crew	VCR = 2 Do not record unless clouds <25%
09/16:34	T Time	Step 9 (Observation)	REQ	Crew	Command truss as needed
09/16:42	MEIDEX SCIENCE	Step 10 (PLD VCR Stop)	REQ	Crew	NLT 09/16:43
		Step 11 (In Cabin Stop)	REQ	Crew	
		Step 12 (PTV PWRDN)	NR	--	
		Step 13 (Door Close)	NR	--	
		Step 14 (PLD VCR Swap)	NR	--	
		Step 15 (Status Check)	REQ	POCC	
		Step 16 (Truss Reconfig)	REQ	POCC	

## MSG 147 - BLUE FD11 MEIDEX OPS

### Orbit # 156

Observation type: Sprite  
 Storm Center: Western Australia, near Perth  
 Second center is East of Papua / New Guinea  
 Video: Live SSV; Recorded on V10#1 and V10#2  
 Special Instructions: Storms near the limb are preferable for pointing. Do not command gain to 90 until T Time. At end of observation, command Gain back to 65 prior to continuing with nominal steps.  
 Violations: None

Start	Procedure	Instructions	R/NR	CMD	Notes
09/17:00	MEIDEX SCIENCE	Step 4 (Xyb Cam Config)	REQ	POCC	Setup = Sprite Gain=65 Filter=6
09/17:10	MEIDEX SCIENCE	Step 1 (Xyb Pwr Check)	REQ	Crew	
		Step 2 (Xyb T/D Check)	REQ	Crew	
		Step 3 (Door Open)	NR	--	
		Step 4 (Xyb Cam Config)	REQ	Crew	Setup = Sprite Filter=6 Leave Gain at ~65 until T Time
		Step 5 (Mon 2 Checks)	REQ	Crew	Setup = Sprite Gain ~65
		Step 6 (Truss Pntg Config)	NR	--	Already cmded
		Step 7 (In Cabin Record)	REQ	Crew	No Downlink
		Step 8 (PLD VCR act)	NR	--	
09/17:21	T Time	Step 9 (Observation)	REQ	Crew	Cmd Gain to 90 per Step 4  Maneuver truss as reqd to track storms near limb
09/17:54	MEIDEX SCIENCE	Step 10 (PLD VCR Stop)	NR	--	
		Step 11 (In Cabin Stop)	REQ	Crew	Cmd Gain to 65 per Step 4 prior to executing step 11
		Step 12 (PTV PWRDN)	NR	--	
		Step 13 (Door Close)	NR	--	
		Step 14 (PLD VCR Swap)	NR	--	
		Step 15 (Status Check)	REQ	Crew	
		Step 16 (Truss Reconfig)	REQ	Crew	

## MSG 147 - BLUE FD11 MEIDEX OPS

1 **Orbit # 157**  
2 Observation type: Dust / Sea surface (Mediterranean)  
3 Dust plume width: No dust is predicted  
4 Airplane Support: Yes  
5 Video: Live SSV; Recorded on V10#1 and V10#2  
6 Special Instructions: If cloud cover exceeds 25% - stop recording on PLD VCRs. Continue  
7 recording on V10s.  
8 **Violations:** **RAM at 09/18:17**  
9

Start	Procedure	Instructions	R/NR	CMD	Notes
09/18:00	MEIDEX SCIENCE	Step 1 (Xyb Pwr Check)	REQ	Crew	
		Step 2 (Xyb T/D Check)	REQ	Crew	
		Step 3 (Door Open)	NR	--	
		Step 4 (Xyb Cam Config)	REQ	Crew	Setup = ROI
		Step 5 (Mon 2 Checks)	REQ	Crew	Setup = ROI
		Step 6 (Truss Pntg Config)	NR	--	Already cmded
		Step 7 (In Cabin Record)	REQ	Crew	No Downlink
		Step 8 (PLD VCR act)	REQ	Crew	VCR = 2 Do not record unless clouds <25%
09/18:07	T Time	Step 9 (Observation)	REQ	Crew	
09/18:14	MEIDEX SCIENCE	Step 10 (PLD VCR Stop)	REQ	Crew	NLT 09/18:15
		Step 11 (In Cabin Stop)	REQ	Crew	
		Step 12 (PTV PWRDN)	REQ	Crew	
		Step 13 (Door Close)	REQ	Crew	NLT 09/18:15
		Step 14 (PLD VCR Swap)	NR	--	
		Step 15 (Status Check)	REQ	POCC	
		Step 16 (Truss Reconfig)	REQ	POCC	
09/18:17	RAM Violation	Door must be closed			
09/18:20	MX Closeout	Steps 1-4	REQ	POCC	
09/18:20	MX Closeout	Step 5	REQ	Crew	
09/18:30	MX PGSC SETUP	Steps 5-6	REQ	Crew	



## MSG 147 - BLUE FD11 MEIDEX OPS

### Orbit # 160

Observation type: Dust (Atlantic)  
 Dust plume width: A substantial plume of dust and smoke, some 500 km long, from the Nigerian coast westward toward the Atlantic. An additional plume resides off the coast of Mauritania and Mali  
 Dust Plume Location: 5 deg WEST of groundtrack  
 Airplane Support: None  
 Video: Live SSV; Recorded on V10#1 and V10#2  
 Special Instructions: A roll bias 5 degrees South has been requested for this pass. The plume may be mixed with clouds, but fairly distinctive, whitish-yellow.  
 Violations: None

Start	Procedure	Instructions	R/NR	CMD	Notes
09/22:05	MEIDEX SETUP	Step 4 (TLM Config)	REQ	POCC	
		Step 5 (Event Log Config)	REQ	POCC	
		Step 6 (PLD VCR Act.)	REQ	POCC	VCR = 2
		Step 7 (Sekai Activation)	REQ	POCC	
09/22:10	MEIDEX SETUP	Step 1 (Timer Setup)	REQ	Crew	
		Step 2 (PTV Check)	REQ	Crew	
		Step 3 (Tape Verification)	REQ	Crew	
09/22:25	XYBION ACTIVATION	Step 1 (Xybion Powerup)	REQ	POCC	
		Step 2 (Time/Date Config)	REQ	POCC	
09/22:30	MEIDEX SCIENCE	Step 4 (Xyb Cam Config)	REQ	POCC	Setup = ROI
		Step 6 (Truss Pntg Config)	REQ	POCC	Truss = 0
09/22:35	MEIDEX SCIENCE	Step 1 (Xyb Pwr Check)	REQ	Crew	
		Step 2 (Xyb T/D Check)	REQ	Crew	
		Step 3 (Door Open)	REQ	Crew	NLT 09/22:44
		Step 4 (Xyb Cam Config)	NR	--	Already cmded
		Step 5 (Mon 2 Checks)	REQ	Crew	Setup = ROI
		Step 6 (Truss Pntg Config)	NR	--	Already cmded
		Step 7 (In Cabin Record)	REQ	Crew	No Downlink
		Step 8 (PLD VCR act)	REQ	Crew	VCR = 2
09/22:47	T Time	Step 9 (Observation)	REQ	Crew	
09/23:00	MEIDEX SCIENCE	Step 10 (PLD VCR Stop)	REQ	Crew	NLT 09/23:01
		Step 11 (In Cabin Stop)	REQ	Crew	
		Step 12 (PTV PWRDN)	NR	--	
		Step 13 (Door Close)	NR	--	
		Step 14 (PLD VCR Swap)	NR	--	
		Step 15 (Status Check)	REQ	POCC	
		Step 16 (Truss Reconfig)	REQ	POCC	

## MSG 147 - BLUE FD11 MEIDEX OPS

**Orbit # 160**  
 Observation type: Sprite  
 Storm Center: Western Australia, near Perth  
 Second center is East of Papua / New Guinea  
 Video: Live SSV; Recorded on V10#1 and V10#2  
 Special Instructions: Storms near the limb are preferable for pointing. Do not command gain to 90 until T Time.  
 Violations: None

Start	Procedure	Instructions	R/NR	CMD	Notes
09/23:00	MEIDEX SCIENCE	Step 4 (Xyb Cam Config)	REQ	POCC	Setup = Sprite Filter=6 Gain=65
09/23:10	MEIDEX SCIENCE	Step 1 (Xyb Pwr Check)	REQ	Crew	
		Step 2 (Xyb T/D Check)	REQ	Crew	
		Step 3 (Door Open)	NR	--	
		Step 4 (Xyb Cam Config)	NR	--	Already cmded
		Step 5 (Mon 2 Checks)	REQ	Crew	Setup = Sprite Gain ~65
		Step 6 (Truss Pntg Config)	NR	--	Already cmded
		Step 7 (In Cabin Record)	REQ	Crew	No Downlink
		Step 8 (PLD VCR act)	NR	--	
09/23:20	T Time	Step 9 (Observation)	REQ	Crew	Cmd Gain to 90 per Step 4  Maneuver truss as reqd to track storms near limb
09/23:54	MEIDEX SCIENCE	Step 10 (PLD VCR Stop)	NR	--	
		Step 11 (In Cabin Stop)	REQ	Crew	
		Step 12 (PTV PWRDN)	NR	--	
		Step 13 (Door Close)	NR	--	
		Step 14 (PLD VCR Swap)	NR	--	
		Step 15 (Status Check)	REQ	POCC	Cmd Gain to 65 per Step 4
		Step 16 (Truss Reconfig)	REQ	POCC	



## MSG 147 - BLUE FD11 MEIDEX OPS

### **Orbit # 161**

Observation type: Dust (Atlantic)  
 Dust plume width: A substantial plume of dust and smoke, some 500 km long, from the Nigerian coast westward toward the Atlantic. An additional plume resides off the coast of Mauritania and Mali  
 Dust Plume Location: 10 deg EAST of groundtrack.  
 Airplane Support: None  
 Video: Live SSV; Recorded on V10#1 and V10#2  
 Special Instructions: A roll bias 30 degrees North has been requested for this pass. The plume may be mixed with clouds, but fairly distinctive, whitish-yellow  
 Violations: None

Start	Procedure	Instructions	R/NR	CMD	Notes
10/00:00	MEIDEX SCIENCE	Step 4 (Xyb Cam Config)	REQ	POCC	Setup = ROI
		Step 6 (Truss Pntg Config)	REQ	POCC	Truss = +10
10/00:10	MEIDEX SCIENCE	<b>Step 1 (Xyb Pwr Check)</b>	<b>REQ</b>	<b>Crew</b>	
		<b>Step 2 (Xyb T/D Check)</b>	<b>REQ</b>	<b>Crew</b>	
		Step 3 (Door Open)	NR	--	
		Step 4 (Xyb Cam Config)	NR	--	Already cmded
		<b>Step 5 (Mon 2 Checks)</b>	<b>REQ</b>	<b>Crew</b>	<b>Setup = ROI</b>
		Step 6 (Truss Pntg Config)	NR	--	Already cmded
		<b>Step 7 (In Cabin Record)</b>	<b>REQ</b>	<b>Crew</b>	<b>No Downlink</b>
		<b>Step 8 (PLD VCR act)</b>	<b>REQ</b>	<b>Crew</b>	<b>VCR = 2</b>
10/00:22	T Time	Step 9 (Observation)	REQ	Crew	
10/00:30	MEIDEX SCIENCE	Step 10 (PLD VCR Stop)	REQ	Crew	<b>NLT</b> <b>10/00:31</b>
		<b>Step 11 (In Cabin Stop)</b>	<b>REQ</b>	<b>Crew</b>	
		Step 12 (PTV PWRDN)	NR	--	
		Step 13 (Door Close)	NR	--	
		Step 14 (PLD VCR Swap)	NR	--	
		Step 15 (Status Check)	REQ	POCC	
		Step 16 (Truss Reconfig)	REQ	POCC	

## MSG 147 - BLUE FD11 MEIDEX OPS

1 **Orbit # 161**  
2 Observation type: Sprite  
3 Storm Center: Western Australia, near Perth, Second center is East of Papua / New Guinea  
4 – exact locations will be given NLT orbit 158.  
5 Video: Live **Digital** Downlink, Recorded on V10#1 and V10#2  
6 Special Instructions: Storms near the limb are preferable for pointing. Do not command gain to 90  
7 until T Time.  
8 **Violations: None**  
9

Start	Procedure	Instructions	R/NR	CMD	Notes
10/00:30	MEIDEX SCIENCE	Step 4 (Xyb Cam Config)	REQ	POCC	Setup = Sprite Filter=6 Gain=65
10/00:40	MEIDEX SCIENCE	Step 1 (Xyb Pwr Check)	REQ	Crew	
		Step 2 (Xyb T/D Check)	REQ	Crew	
		Step 3 (Door Open)	NR	--	
		Step 4 (Xyb Cam Config)	NR	--	Already cmded
		Step 5 (Mon 2 Checks)	REQ	Crew	Setup = Sprite Gain ~65
		Step 6 (Truss Pntg Config)	NR	--	Already cmded
		Step 7 (In Cabin Record)	REQ	Crew	Digital Downlink
		Step 8 (PLD VCR act)	NR	--	
10/00:50	T Time	Step 9 (Observation)	REQ	Crew	Cmd Gain to 90 per Step 4  Maneuver truss as reqd to track storms near limb
10/01:24	MEIDEX SCIENCE	Step 10 (PLD VCR Stop)	NR	--	
		Step 11 (In Cabin Stop)	REQ	Crew	
		Step 12 (PTV PWRDN)	NR	--	
		Step 13 (Door Close)	NR	--	
		Step 14 (PLD VCR Swap)	NR	--	
		Step 15 (Status Check)	REQ	POCC	Cmd Gain to 65 per Step 4
		Step 16 (Truss Reconfig)	REQ	POCC	
10/01:20	MX CLOSEOUT	Step 3 (Xybion Deact)	REQ	POCC	

## MSG 147 - BLUE FD11 MEIDEX OPS

**Orbit # 162**  
 Observation type: Sprite  
 Storm Center: Western Australia, near Perth, and inland. Second center is East of Papua / New Guinea – exact locations will be given NLT orbit 158  
 Video: Live Digital Downlink, Recorded on V10#1 and V10#2  
 Special Instructions: Storms near the limb are preferable for pointing. Do not command gain to 90 until T Time.  
 Violations: None

Start	Procedure	Instructions	R/NR	CMD	Notes
10/01:55	XYBION ACTIVATION	Step 1 (Xybion Powerup)	REQ	POCC	
		Step 2 (Time/Date Config)	REQ	POCC	
10/02:00	MEIDEX SCIENCE	Step 4 (Xyb Cam Config)	REQ	POCC	Setup = Sprite Filter=6 Gain=65
10/02:10	MEIDEX SCIENCE	Step 1 (Xyb Pwr Check)	REQ	Crew	
		Step 2 (Xyb T/D Check)	REQ	Crew	
		Step 3 (Door Open)	NR	--	
		Step 4 (Xyb Cam Config)	NR	--	Already cmded
		Step 5 (Mon 2 Checks)	REQ	Crew	Setup = Sprite Gain ~65
		Step 6 (Truss Pntg Config)	NR	--	Already cmded
		Step 7 (In Cabin Record)	REQ	Crew	Digital Downlink
		Step 8 (PLD VCR act)	NR	--	
10/02:20	T Time	Step 9 (Observation)	REQ	Crew	Cmd Gain to 90 per Step 4  Maneuver truss as reqd to track storms near limb
10/02:45	MEIDEX SCIENCE	Step 10 (PLD VCR Stop)	NR	--	
		Step 11 (In Cabin Stop)	REQ	Crew	
		Step 12 (PTV PWRDN)	REQ	Crew	
		Step 13 (Door Close)	REQ	Crew	NLT 10/03:00
		Step 14 (PLD VCR Swap)	NR	--	
		Step 15 (Status Check)	REQ	POCC	
		Step 16 (Truss Reconfig)	REQ	POCC	
Check MCC	MX Closeout	Step 5	REQ	Crew	
Check MCC	MX PGSC SETUP	Steps 5-6	REQ	Crew	